

# Full wwPDB X-ray Structure Validation Report (i)

May 16, 2020 – 06:50 am BST

PDB ID : 6KGL

Title : LSD1-CoREST-S2101 N5 adduct model

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Deposited on : 2019-07-12

Resolution : 2.70 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*A user guide is available at

https://www.wwpdb.org/validation/2017/XrayValidationReportHelp with specific help available everywhere you see the (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

MolProbity: 4.02b-467

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS: 2.11

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac: 5.8.0158

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

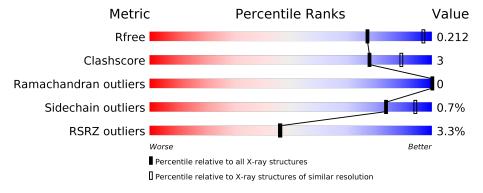
Validation Pipeline (wwPDB-VP) : 2.11

### 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X- $RAY\ DIFFRACTION$ 

The reported resolution of this entry is 2.70 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
$R_{free}$	130704	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain					
1	A	669	91%	7	% •			
2	В	140	84%	11%	6%			



## 2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 6383 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

• Molecule 1 is a protein called Lysine-specific histone demethylase 1A.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	661	Total	С	N	О	S	0	0	0
1	Λ	001	5175	3295	901	960	19	0	0	U

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	165	GLY	_	expression tag	UNP O60341
A	166	PRO	-	expression tag	UNP O60341
A	167	LEU	-	expression tag	UNP O60341
A	168	GLY	-	expression tag	UNP O60341
A	169	SER	-	expression tag	UNP O60341
A	170	HIS	-	expression tag	UNP O60341
A	171	MET	_	expression tag	UNP O60341

• Molecule 2 is a protein called REST corepressor 1.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	В	132	Total 1064	C 669	N 190	O 202	S 3	0	0	0

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	301	GLY	_	expression tag	UNP Q9UKL0
В	302	SER	-	expression tag	UNP Q9UKL0
В	303	SER	_	expression tag	UNP Q9UKL0
В	304	GLY	_	expression tag	UNP Q9UKL0
В	305	SER	-	expression tag	UNP Q9UKL0
В	306	ALA	_	expression tag	UNP Q9UKL0
В	307	SER	-	expression tag	UNP Q9UKL0

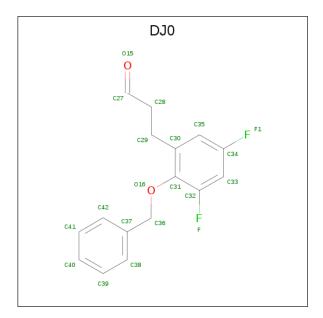
• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0

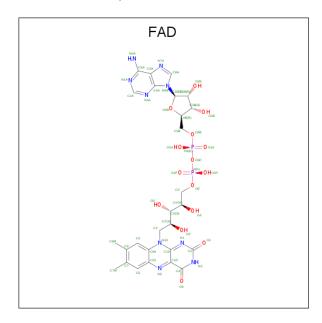
 $\bullet$  Molecule 4 is 3-[3,5-bis(fluoranyl)-2-phenylmethoxy-phenyl] propanal (three-letter code: DJ0) (formula:  $C_{16}H_{14}F_2O_2).$ 





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	С	F	О	0	0
		_	20	16	2	2		

• Molecule 5 is FLAVIN-ADENINE DINUCLEOTIDE (three-letter code: FAD) (formula:  $C_{27}H_{33}N_9O_{15}P_2$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
5	Λ	1	Total	С	N	О	Р	0	0
9	A	1	53	27	9	15	2	0	U

• Molecule 6 is water.

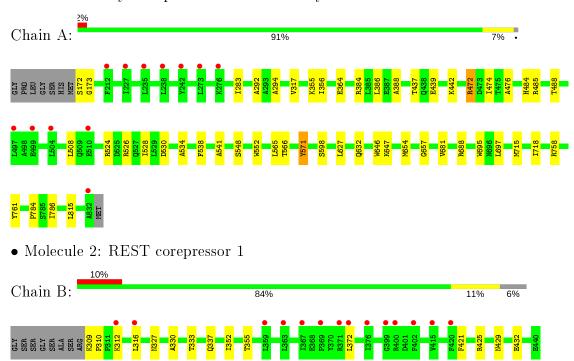
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	53	Total O 53 53	0	0



# 3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Lysine-specific histone demethylase 1A





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants	119.55Å 178.55Å 234.19Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.96 - 2.70	Depositor
resolution (A)	48.96 - 2.70	EDS
% Data completeness	99.9 (48.96-2.70)	Depositor
(in resolution range)	$100.0 \ (48.96 - 2.70)$	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.07	Depositor
$< I/\sigma(I) > 1$	$1.95 \; ({\rm at} \; 2.69 {\rm \AA})$	Xtriage
Refinement program	PHENIX 1.13_2998+SVN	Depositor
P. P.	0.177 , $0.205$	Depositor
$R, R_{free}$	0.179 , $0.212$	DCC
$R_{free}$ test set	1345 reflections $(1.95\%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	70.9	Xtriage
Anisotropy	0.578	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.33, 60.8	EDS
L-test for twinning <sup>2</sup>	$ < L > = 0.51, < L^2> = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	6383	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	92.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 2.92% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of <|L|>,  $< L^2>$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

## 5 Model quality (i)

### 5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, FAD, DJ0

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 5 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond	lengths	Bond angles		
MIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.42	0/5287	0.56	0/7172	
2	В	0.36	0/1079	0.45	0/1455	
All	All	0.41	0/6366	0.54	0/8627	

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	$\mathbf{H}(\mathbf{model})$	H(added)	Clashes	Symm-Clashes
1	A	5175	0	5208	32	0
2	В	1064	0	1074	10	0
3	A	18	0	24	0	0
4	A	20	0	0	0	0
5	A	53	0	31	0	0
6	A	53	0	0	0	0
All	All	6383	0	6337	37	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 3.

All (37) close contacts within the same asymmetric unit are listed below, sorted by their clash



magnitude.

A	A	Interatomic	Clash
Atom-1	Atom-2	${f distance}({f \AA})$	overlap (Å)
2:B:327:ASN:HB3	2:B:330:ALA:HB2	1.72	0.71
1:A:627:LEU:HD22	1:A:654:MET:HE2	1.80	0.64
1:A:566:THR:HG21	1:A:697:LEU:HD22	1.81	0.61
1:A:384:ARG:NH1	2:B:312:LYS:O	2.38	0.56
1:A:283:ILE:HD12	1:A:294:ALA:HB2	1.88	0.55
1:A:526:ARG:NH1	1:A:530:ASP:OD1	2.38	0.55
1:A:172:SER:OG	1:A:173:GLY:N	2.40	0.55
1:A:292:ALA:HB2	1:A:815:LEU:HD12	1.91	0.52
1:A:646:TRP:CZ3	1:A:647:LYS:HE2	2.45	0.51
1:A:534:ALA:HB2	1:A:688:ARG:HG3	1.93	0.50
1:A:484:HIS:CD2	2:B:372:LEU:HD13	2.48	0.49
1:A:364:GLU:HA	1:A:681:VAL:HB	1.95	0.48
1:A:356:ILE:HD11	1:A:566:THR:HG23	1.95	0.48
1:A:437:THR:HG22	1:A:508:LEU:HD13	1.97	0.47
2:B:429:ASN:HB3	2:B:432:GLU:HB2	1.96	0.47
1:A:695:TRP:HE3	1:A:697:LEU:HD21	1.78	0.47
1:A:784:PRO:HB2	1:A:786:ILE:O	2.16	0.46
1:A:484:HIS:O	1:A:488:THR:HG23	2.15	0.46
1:A:541:ALA:HB2	1:A:761:TYR:CZ	2.50	0.46
1:A:472:ARG:HB2	1:A:476:ALA:HB3	1.98	0.45
1:A:355:LYS:HA	1:A:565:LEU:HD23	1.98	0.45
1:A:541:ALA:O	1:A:657:GLY:HA3	2.17	0.45
1:A:439:GLU:HG3	2:B:352:ILE:HD13	2.00	0.44
1:A:566:THR:HG21	1:A:697:LEU:HD13	2.00	0.44
2:B:333:THR:O	2:B:337:GLN:HG2	2.17	0.44
1:A:632:GLN:CD	1:A:758:ARG:HE	2.21	0.43
1:A:388:ALA:HB1	2:B:316:LEU:HD11	2.00	0.43
1:A:442:LYS:HE3	2:B:355:THR:HG21	2.01	0.43
1:A:548:SER:O	1:A:552:TRP:HB3	2.19	0.42
1:A:647:LYS:HB2	1:A:647:LYS:HE2	1.85	0.42
1:A:524:ARG:O	1:A:528:ILE:HG13	2.18	0.42
2:B:309:LYS:N	2:B:310:PRO:CD	2.83	0.42
1:A:474:ILE:HD12	1:A:474:ILE:HA	1.85	0.41
1:A:386:LEU:HD23	1:A:386:LEU:HA	1.85	0.40
1:A:715:MET:HA	1:A:718:ILE:HD12	2.03	0.40
2:B:421:PHE:O	2:B:425:ARG:HB2	2.21	0.40
1:A:317:VAL:HG13	1:A:571:TYR:HB3	2.03	0.40

There are no symmetry-related clashes.  $\,$ 



#### 5.3 Torsion angles (i)

#### 5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Favoured Allowed		Percentiles	
1	A	659/669 (98%)	636 (96%)	23 (4%)	0	100	100
2	В	130/140 (93%)	124 (95%)	6 (5%)	0	100	100
All	All	789/809 (98%)	760 (96%)	29 (4%)	0	100	100

There are no Ramachandran outliers to report.

#### 5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric Outliers		Percentiles		
1	A	561/567~(99%)	556 (99%)	5 (1%)	78	92	
2	В	$116/121 \; (96\%)$	116 (100%)	0	100	100	
All	All	677/688 (98%)	672 (99%)	5 (1%)	84	94	

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	472	ARG
1	A	485	ARG
1	A	538	PHE
1	A	571	TYR
1	A	598	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.



#### 5.3.3 RNA (i)

There are no RNA molecules in this entry.

#### 5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

### 5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

#### 5.6 Ligand geometry (i)

5 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 2 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Tuno	Chain	Res	Link	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	$\mid \# Z  > 2$	Counts	RMSZ	# Z >2
3	GOL	A	903	-	5,5,5	1.27	0	5,5,5	0.71	0
4	DJ0	A	904	-	21,21,21	0.32	0	27,27,27	0.72	1 (3%)
3	GOL	A	901	_	5,5,5	1.01	0	5,5,5	0.99	0
3	GOL	A	902	-	5,5,5	1.33	1 (20%)	5,5,5	0.91	0
5	FAD	A	905	_	51,58,58	1.30	5 (9%)	60,89,89	2.53	12 (20%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	$\operatorname{GOL}$	A	903	-	-	4/4/4/4	-
4	DJ0	A	904	-	-	4/8/9/9	0/2/2/2
3	GOL	A	901	-	-	2/4/4/4	-
3	GOL	A	902	-	-	3/4/4/4	-

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Mol	Type	Chain	$\mathbf{Res}$	Link	Chirals	${f Torsions}$	Rings
5	FAD	A	905	_	-	6/30/50/50	0/6/6/6

All (6) bond length outliers are listed below:

Mol	Chain	$\operatorname{Res}$	Type	Atoms	$\mathbf{Z}$	${f Observed(\AA)}$	$\operatorname{Ideal}( ext{\AA})$
5	A	905	FAD	C4X-N5	4.31	1.39	1.33
5	A	905	FAD	C5X-N5	4.31	1.42	1.35
5	A	905	FAD	C9A-N10	3.17	1.42	1.38
5	A	905	FAD	C10-N1	3.14	1.37	1.33
5	A	905	FAD	C4-N3	3.09	1.38	1.33
3	A	902	GOL	C3-C2	2.31	1.61	1.51

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
5	A	905	FAD	C4-N3-C2	14.01	126.97	115.14
5	A	905	FAD	C4X-C4-N3	-7.94	112.58	123.43
5	A	905	FAD	C10-C4X-N5	-4.60	118.08	121.26
5	A	905	FAD	C4-C4X-C10	4.03	122.62	119.95
5	A	905	FAD	C1'-N10-C10	3.53	121.57	118.41
5	A	905	FAD	C9A-N10-C10	-2.94	118.06	121.91
5	A	905	FAD	C6-C5X-N5	2.81	122.14	119.05
5	A	905	FAD	C9A-C5X-N5	-2.58	118.33	122.36
5	A	905	FAD	C5A-C6A-N6A	2.28	123.81	120.35
4	A	904	DJ0	C36-O16-C31	2.26	120.63	113.93
5	A	905	FAD	C1'-N10-C9A	2.16	119.99	118.29
5	A	905	FAD	O2A-PA-O1A	2.13	122.77	112.24
5	A	905	FAD	C4A-C5A-N7A	2.13	111.62	109.40

There are no chirality outliers.

All (19) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	903	GOL	O1-C1-C2-C3
4	A	904	DJ0	C28-C29-C30-C31
4	A	904	DJ0	C28-C29-C30-C35
3	A	901	GOL	C1-C2-C3-O3
4	A	904	DJ0	C37-C36-O16-C31
3	A	902	GOL	C1-C2-C3-O3
4	A	904	DJ0	C30-C31-O16-C36
3	A	903	GOL	O1-C1-C2-O2

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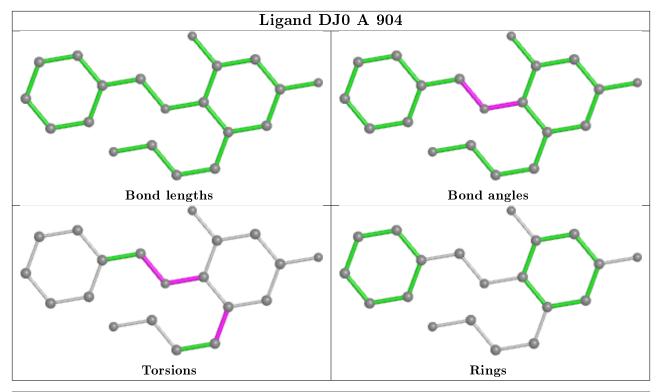
Mol	Chain	Res	Type	Atoms
5	A	905	FAD	C2'-C3'-C4'-O4'
3	A	903	GOL	O2-C2-C3-O3
3	A	901	GOL	O2-C2-C3-O3
5	A	905	FAD	C2'-C3'-C4'-C5'
3	A	902	GOL	O1-C1-C2-O2
5	A	905	FAD	C5'-O5'-P-O3P
3	A	903	GOL	C1-C2-C3-O3
5	A	905	FAD	C5'-O5'-P-O1P
5	A	905	FAD	O4B-C4B-C5B-O5B
3	A	902	GOL	O2-C2-C3-O3
5	A	905	FAD	O3'-C3'-C4'-C5'

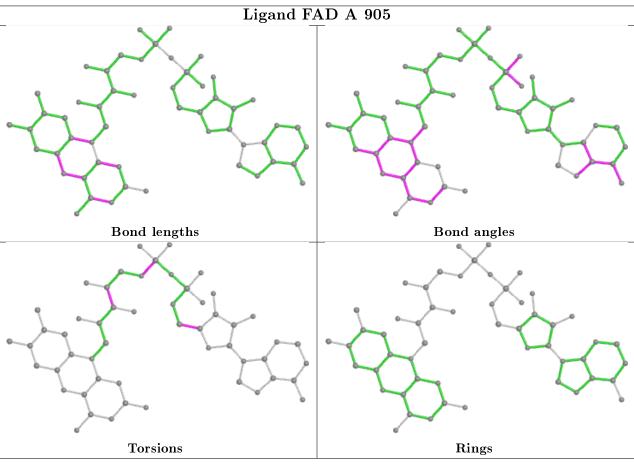
There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.









### 5.7 Other polymers (i)

There are no such residues in this entry.

### 5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.



### 6 Fit of model and data (i)

#### 6.1 Protein, DNA and RNA chains (i)

In the following table, the column labelled '#RSRZ>2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median,  $95^{th}$  percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ $>$	$\#\mathrm{RSRZ}{>}2$	$\mathrm{OWAB}(\mathrm{\AA}^2)$	Q < 0.9
1	A	661/669 (98%)	0.23	12 (1%) 68 70	45, 84, 128, 164	0
2	В	$132/140 \ (94\%)$	0.55	14 (10%) 6 4	79, 117, 161, 182	0
All	All	793/809 (98%)	0.28	26 (3%) 46 46	45, 90, 140, 182	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	832	ALA	4.6
1	A	273	LEU	3.9
1	A	238	LEU	3.8
2	В	402	PHE	3.4
2	В	367	ILE	3.2
1	A	235	LEU	3.1
2	В	312	LYS	3.0
1	A	276	LYS	2.8
1	A	242	TYR	2.7
1	A	504	LEU	2.5
2	В	400	ARG	2.5
2	В	372	LEU	2.3
2	В	415	VAL	2.3
1	A	212	PHE	2.2
1	A	499	GLU	2.2
2	В	363	LEU	2.2
2	В	369	PRO	2.2
1	A	227	ILE	2.1
1	A	497	LEU	2.1
2	В	359	LEU	2.1
2	В	376	ILE	2.1
2	В	371	ARG	2.1
1	A	510	GLU	2.0
2	В	399	GLY	2.0

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Mol	Chain	Res	Type	RSRZ
2	В	420	PHE	2.0
2	В	316	LEU	2.0

### 6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

### 6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

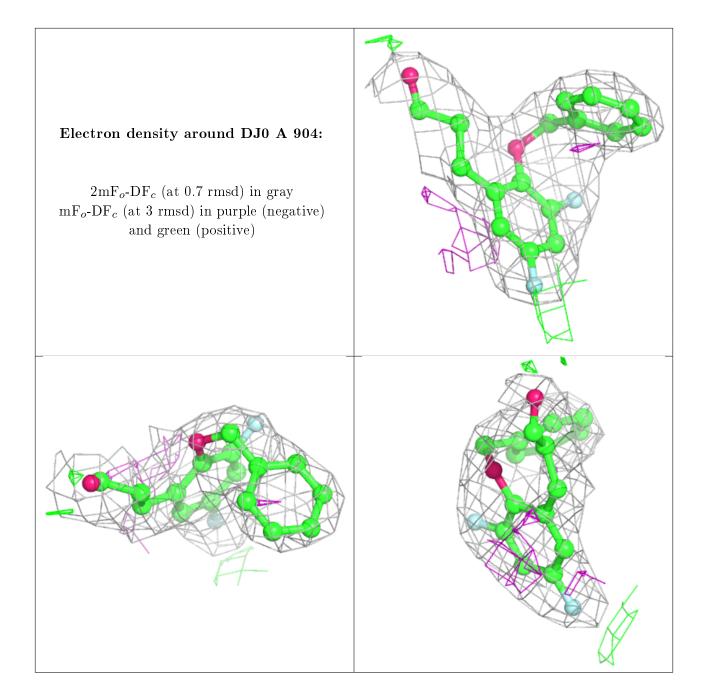
### 6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

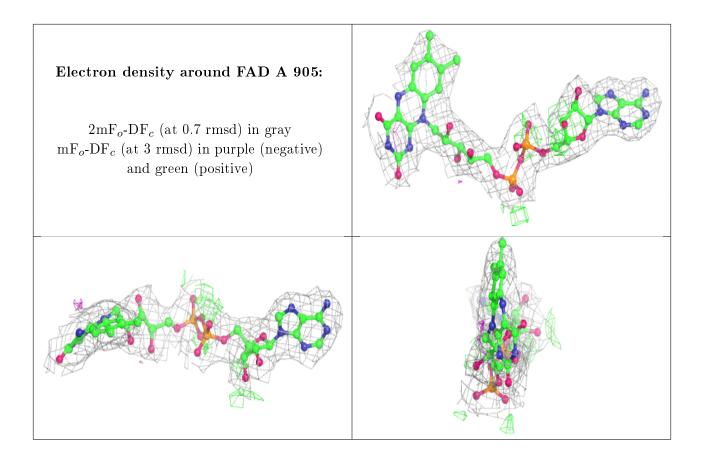
Mol	$\mathbf{Type}$	Chain	Res	Atoms	RSCC	RSR	${f B-factors}({f \AA}^2)$	Q<0.9
3	$\operatorname{GOL}$	A	902	6/6	0.83	0.27	86,89,91,95	0
3	$\operatorname{GOL}$	A	903	6/6	0.84	0.31	98,117,127,131	0
3	GOL	A	901	6/6	0.96	0.22	71,75,87,92	0
4	DJ0	A	904	20/20	0.97	0.25	68,94,102,104	0
5	FAD	A	905	53/53	0.98	0.23	46,58,69,72	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.









### 6.5 Other polymers (i)

There are no such residues in this entry.

